Inline classes

This is a page to test out how we render classes and functions included inline in the page. This is common with module pages.

Important APIs

Every time you use this program, you'll want to create an instance of `api_example.inline_classes.SimpleInlineClass`. It has a simple interface:

`api_example.inline_classes.SimpleInlineClass(arg1)` [GitHub ↗](#)

This is a simple class that does not have any methods or attributes.

It only has the class description and constructor. Many classes in Qiskit docs are simple like this.

It can be useful to use free functions rather than the class:

`api_example.my_function(input1, input2, input3=None, **kwargs)` [GitHub ↗](#)

A function that does awesome stuff.

Returns

Did the function work.

Raises

- **ValueError** – If the inputs are not the correct values.
- **TypeError** – If the inputs are not strings.

Return type

int

Sometimes, you even need to use a really complex class!

`api_example.inline_classes.InlineClassWithMethods` [GitHub ↗](#)

Bases: `object`

This class is more involved.

Note how the methods and attributes are rendered and indented when this class is inlined on the docs page.

Attributes

CLASS_ATTRIBUTE

`str`

`= 'An important part of any API.'`

interest_rate

Methods

method1

`method1()`

A simple method.

Return type

int

method2

`method2(arg1, arg2, description)`

A method with a lot of args!

This method will use a Hamiltonian to reach quantum advantage. Hamilton: great play & the secret to quantum computing. What a polymath.

Parameters

- **arg1** (*int* / *float*) – All numbers accepted.
- **arg2** (*list*[*InlineClassWithMethods*]) – A list of other instances, although these will be discarded.
- **description** (*str*) – If your description is too boring or too cryptic, this program will crash your computer.

Return type

tuple[int, *InlineClassWithMethods*]

Warning: exceptions

The above APIs might raise an exception! Be careful!

CustomException

`api_example.inline_classes.CustomException` [GitHub ↗](#)

See how exceptions render too.

Other prose

Blah blah blah.